INTERNATIONAL SEARCH REPORT

International application No.

CLASSIFICA	•	PCT/JP2004/016855
Int.Cl7	TION OF SUBJECT MATTER F02D9/02, F02B25/22, F02D11/02	
ecording to Inter	national Patent Classification (IPC) or to both national classification	and IPC
	TO CALLED	
	entation searched (classification system followed by classification system	/mbols)
Jitsuyo Kokai Ji	tsuvo Shinan Koho 1971—2005 Toroku Jit	suyo Shinan Koho 1994-2005
lectronic data ba	ase consulted during the international search (name of data base and	i, where practicable, search terms used)
DOCUMEN	ITS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, or	The relevant passages Relevant to claim No.
x	JP 2000-186559 A (Mitsubishi Heavy Ltd.), 04 July, 2000 (04.07.00), Claims 1, 2; Par. Nos. [0002], [002 to [0041], [0047]; Figs. 1 to 3 (Family: none)	
* Special ca "A" document to be of px "E" earlier apy filling date "L" document cited to e special re "O" document "p" document	tegories of cited documents: defining the general state of the art which is not considered at the articular relevance plication or patent but published on or after the international twhich may throw doubts on priority claim(s) or which is stablish the publication date of another citation or other ason (as specified) treferring to an oral disclosure, use, exhibition or other means	e and not in contlict with the application to solve the principle or theory underlying the invention cannot be cument of particular relevance; the claimed invention cannot be undered novel or cannot be considered to involve an inventive p when the document is taken alone cument of particular relevance; the claimed invention cannot be considered to invention cannot be consent of particular relevance; the claimed invention cannot be
** Special ca "A" document to be of px "E" earlier app filing date "L" document cited to e special re "O" document priority d	tegories of cited documents: defining the general state of the art which is not considered articular relevance olication or patent but published on or after the international t which may throw doubts on priority claim(s) or which is stablish the publication date of another citation or other ason (as specified) t referring to an oral disclosure, use, exhibition or other means to published prior to the international filing date but later than the ate claimed tual completion of the international search tual completion of the international search 2 "T" late dath the art which is not considered at the international "X" do considered and considered at the international or other means be are claimed "A" do considered and considered at the international search are claimed and considered and considered and considered at the international search are claimed and considered and consid	r document published after the international filing date or priority and not in conflict with the application but cited to understand principle or theory underlying the invention cument of particular relevance; the claimed invention cannot be assidered novel or cannot be considered to involve an inventive p when the document is taken alone cument of particular relevance; the claimed invention cannot be assidered to involve an inventive step when the document is misidered to involve an inventive step when the document is miside with one or more other such documents, such combination ing obvious to a person skilled in the art cument member of the same patent family Finailing of the international search report Finailing of the international search report
* Special ca "A" document to be of pa "E" earlier app filing date "L" document cited to e special re "O" document "p" document "priority d Date of the ac 11 Ap	tegories of cited documents: defining the general state of the art which is not considered attitual relevance the which may throw doubts on priority claim(s) or which is stablish the publication date of another citation or other asson (as specified) referring to an oral disclosure, use, exhibition or other means to published prior to the international filing date but later than the attendament of the international search artill, 2005 (11.04.05) The see Patent Office "T" late data the attendant to the international search and the search artilly and the search of the international search artilly address of the ISA/ Telephone	r document published after the international filing date or priority and not in conflict with the application but cited to understand principle or theory underlying the invention cannot be cument of particular relevance; the claimed invention cannot be a sidered novel or cannot be considered to involve an inventive p when the document is taken alone cument of particular relevance; the claimed invention cannot be a native to involve an inventive step when the document is makined with one or more other such documents, such combination ing obvious to a person skilled in the art cument member of the same patent family

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	City 2 of first cheet)
Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This internations	al search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims	s Nos.: se they relate to subject matter not required to be searched by this Authority, namely:
2. Claim becau extent	ns Nos.: use they relate to parts of the international application that do not comply with the prescribed requirements to such an use they relate to parts of the international search can be carried out, specifically:
3. Clain becau	ms Nos.: use they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Internation	onal Searching Authority found multiple inventions in this international application, as follows:
There 1 and 3	e is no special technical feature common to the inventions of claims 3.
2. As any 3. As only	all required additional search fees were timely paid by the applicant, this international search report covers all searchable ims. all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of vadditional fee. only some of the required additional search fees were timely paid by the applicant, this international search report covers by those claims for which fees were paid, specifically claims Nos.: or required additional search fees were timely paid by the applicant. Consequently, this international search report is stricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1, 2
Remark on	Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

発明の属する分野の分類(国際特許分類(IPC)) Int.Cl.7 F02D9/02, F02B25/22, F02D11/02

調査を行った分野

調査を行った最小限資料(国際特許分類(IPC))

Int.Cl.7 F02D9/02, F02B25/22, F02D11/02

最小限資料以外の資料で調査を行った分野に含まれるもの

日本国実用新案公報

1922-1996年

日本国公開実用新案公報

1971-2005年

日本国実用新案登録公報

1996-2005年

日本国登録実用新案公報

1994-2005年

国際調査で使用した電子データベース(データベースの名称、調査に使用した用語)

C. 関連する 引用文献の カテゴリー*	と認められる文献 引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示	関連する 請求の範囲の番号
х	JP 2000-186559 A (三菱重工業株式会社) 2000.07.04,【請求項1】,【請求項2】,段落【0 002】,【0028】,【0039】-【0041】,【00 47】,第1-3図,(ファミリーなし)	1, 2

C欄の続きにも文献が列挙されている。

パテントファミリーに関する別紙を参照。

- * 引用文献のカテゴリー
- 「E」国際出願日前の出願または特許であるが、国際出願日 以後に公安されたもの
- 「L」優先権主張に疑義を提起する文献又は他の文献の発行 日若しくは他の特別な理由を確立するために引用す る文献 (理由を付す)
- 「O」口頭による開示、使用、展示等に言及する文献
- 「P」国際出願日前で、かつ優先権の主張の基礎となる出願

- の日の後に公表された文献
- 「A」特に関連のある文献ではなく、一般的技術水準を示す 「T」国際出願日又は優先日後に公表された文献であって 出願と矛盾するものではなく、発明の原理又は理論 の理解のために引用するもの
 - 「X」特に関連のある文献であって、当該文献のみで発明 の新規性又は進歩性がないと考えられるもの
 - 「Y」特に関連のある文献であって、当該文献と他の1以 上の文献との、当業者にとって自明である組合せに よって進歩性がないと考えられるもの
 - 「&」同一パテントファミリー文献

国際調査報告の発送日 26.04.2005 国際調査を完了した日 11. 04. 2005 3326 特許庁審査官(権限のある職員) 国際調査機関の名称及びあて先 藤井 眞吾 日本国特許庁 (ISA/JP) 郵便番号100-8915 電話番号 03-3581-1101 内線 3 3 5 5 東京都千代田区霞が関三丁目4番3号

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角	E II	副	請求の範囲の一部の調査ができないときの意見(第1ページの2の続き)
			簡求の範囲の一部の嗣皇がてきないととの思えて、第1年 第3項 (PCT17条(2)(a)) の規定により、この国際調査報告は次の理由により請求の範囲の一部について作いった。
7	ι.	Г	請求の範囲 は、この国際調査機関が調査をすることを要しない対象に係るものである。
			つまり、
	2.	_	請求の範囲 は、有意義な国際調査をすることができる程度まで所定の要件を満たしてい
			ない国際出願の部分に係るものである。つまり、
	_		「請求の範囲」 は、従属請求の範囲であってPCT規則6.4(a)の第2文及び第3文の規定に
	3.	1	/ 請求の範囲 は、従展請求の範囲であってPCI規則6.4(a)の第2又及び第3人の旅社に 従って記載されていない。
_	第Ⅱ	橌	発明の単一性が欠如しているときの意見(第1ページの3の続き)
	次	に並	tべるようにこの国際出願に二以上の発明があるとこの国際調査機関は認めた。
		請	水の範囲1及び3に係る発明に共通の特別な技術的特徴はない。
	1.	<u>_</u>	出願人が必要な追加調査手数料をすべて期間内に納付したので、この国際調査報告は、すべての調査可能な請求 の範囲について作成した。
	2.	Г	追加調査手数料を要求するまでもなく、すべての調査可能な請求の範囲について調査することができたので、追 加調査手数料の納付を求めなかった。
l			·
١	3.	Г	出願人が必要な追加調査手数料を一部のみしか期間内に納付しなかったので、この国際調査報告は、手数料の納付のあった次の請求の範囲のみについて作成した。
			•
	4.	⋉	出願人が必要な追加調査手数料を期間内に納付しなかったので、この国際調査報告は、請求の範囲の最初に記載されている発明に係る次の請求の範囲について作成した。
			請求の範囲1、2
1			M13-14 - Areabard - 4 -

追加調査手数料の異議の申立てに関する注意

□ 追加調査手数料の納付と共に出願人から異議申立てがあった。□ 追加調査手数料の納付と共に出願人から異議申立てがなかった。